

20 JUN 2005

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/03414

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03F1/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 0060, no. 60 (E-102), 17 April 1982 (1982-04-17) & JP 57 002107 A (PIONEER ELECTRONIC CORP), 7 January 1982 (1982-01-07) abstract	1-4, 6, 8, 9
X	US 6 028 486 A (ANDRE TORE) 22 February 2000 (2000-02-22) abstract; figures 9,10	1, 3, 8, 9
Y		2, 4
Y	US 2001/0004387 A1 (BARKAROE STEFAN) 21 June 2001 (2001-06-21) claim 3; figure 2	2, 4
P, X	WO 02 089320 A (KO BUM-JONG) 7 November 2002 (2002-11-07) the whole document	1-4, 8, 9

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

20 November 2003

Date of mailing of the international search report

02/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Van den Doel, J

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/03414

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 57002107	A	07-01-1982	NONE	
US 6028486	A	22-02-2000	AU 9466698 A EP 1020025 A1 WO 9918662 A1	27-04-1999 19-07-2000 15-04-1999
US 2001004387	A1	21-06-2001	SE 517622 C2 AU 1428301 A CN 1411648 T EP 1243109 A1 JP 2003517772 T WO 0145336 A1 SE 9904642 A TW 466844 B	25-06-2002 25-06-2001 16-04-2003 25-09-2002 27-05-2003 21-06-2001 18-06-2001 01-12-2001
WO 02089320	A	07-11-2002	KR 2002083735 A WO 02089320 A1	04-11-2002 07-11-2002